

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564512

Luminaire Tested: **SQ4-PR1-150U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564512
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

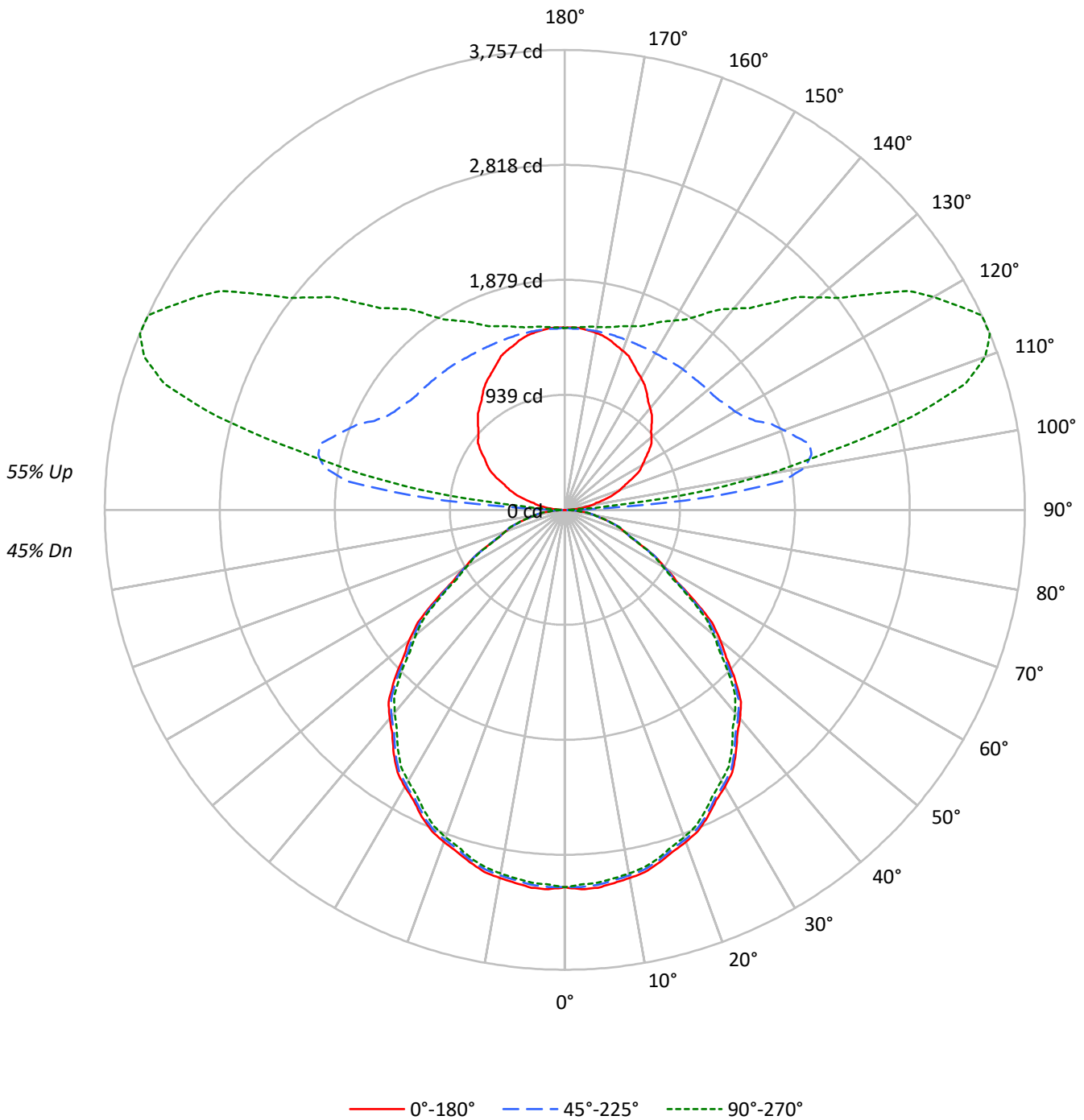
Lumens per Lamp: N/A
Luminaire Lumens: 17297.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 167.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14223	14223	14223
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14078
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13713	13594	13400
40°	13401	13257	13017
45°	12855	12630	12370
50°	11893	11606	11378
55°	10380	10145	9931
60°	8746	8674	8502
65°	7566	7595	7536
70°	6949	6984	6984
75°	6673	6673	6721
80°	6277	6349	6277
85°	5060	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.6	1.7
10°-20°	834.2	4.8
20°-30°	1258.2	7.3
30°-40°	1499.1	8.7
40°-50°	1478.0	8.5
50°-60°	1129.6	6.5
60°-70°	699.0	4.0
70°-80°	397.0	2.3
80°-90°	123.9	0.7
90°-100°	691.1	4.0
100°-110°	1868.5	10.8
110°-120°	1964.4	11.4
120°-130°	1595.6	9.2
130°-140°	1251.7	7.2
140°-150°	960.7	5.6
150°-160°	690.9	4.0
160°-170°	422.1	2.4
170°-180°	142.3	0.8
0°-30°	2383.9	13.8
0°-40°	3883.0	22.4
0°-60°	6490.6	37.5
0°-90°	7710.5	44.6
90°-120°	4524.0	26.2
90°-150°	8331.9	48.2
90°-180°	9587.0	55.4
0°-180°	17297.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3083	3083	3083	3083	3083	
5°	3099	3065	3075	3064	3059	294
15°	2982	2951	2964	2953	2948	842
25°	2764	2731	2746	2717	2714	1272
35°	2435	2407	2414	2382	2379	1520
45°	1970	1944	1936	1901	1896	1510
55°	1291	1270	1261	1240	1235	1156
65°	693	688	696	690	690	702
75°	374	374	374	377	377	395
85°	96	101	106	106	106	111
90°	3	10	21	22	21	11
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

TEST NUMBER: P564512

CATALOG NUMBER: SQ4-PR1-150U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3083.1	3083.1	3083.1	3083.1	3083.1
2.5°	3102.2	3075.2	3083.1	3076.4	3061.9
5°	3099.0	3065.3	3075.1	3064.4	3059.2
7.5°	3075.1	3041.9	3051.8	3041.1	3038.0
10°	3053.9	3022.7	3032.6	3021.9	3016.7
12.5°	3030.5	2997.3	3009.3	2996.4	2991.2
15°	2982.2	2951.0	2963.6	2952.9	2947.7
17.5°	2929.1	2895.8	2908.4	2896.0	2889.2
20°	2886.6	2855.4	2868.0	2849.3	2846.8
22.5°	2839.8	2808.7	2821.3	2796.3	2795.8
25°	2764.4	2730.7	2745.8	2716.6	2714.0
27.5°	2674.7	2643.5	2656.1	2626.3	2623.2
30°	2613.1	2581.9	2594.5	2562.5	2557.3
32.5°	2543.0	2513.9	2524.4	2492.4	2489.3
35°	2435.1	2406.6	2413.9	2382.0	2379.4
37.5°	2312.5	2286.5	2290.7	2255.6	2253.0
40°	2225.4	2199.4	2201.5	2164.2	2161.6
42.5°	2129.8	2103.8	2101.6	2064.4	2061.8
45°	1970.4	1944.5	1935.9	1901.3	1896.1
47.5°	1788.8	1762.8	1746.8	1718.6	1715.0
50°	1657.1	1631.1	1617.2	1593.2	1585.4
52.5°	1514.7	1488.8	1477.0	1455.1	1447.3
55°	1290.6	1269.8	1261.4	1240.0	1234.8
57.5°	1077.6	1063.6	1061.2	1040.4	1038.3
60°	948.0	940.2	940.1	921.5	921.5
62.5°	837.6	831.8	836.0	823.7	821.6
65°	693.1	687.9	695.8	690.4	690.4
67.5°	578.9	578.9	583.7	581.6	581.6
70°	515.2	515.2	517.8	517.8	517.8
72.5°	457.8	455.7	462.6	462.6	460.5
75°	374.4	374.4	374.4	377.1	377.1
77.5°	291.6	292.1	294.2	293.7	291.6
80°	236.3	238.9	239.0	236.3	236.3
82.5°	181.1	183.7	183.8	183.2	181.1
85°	95.6	100.8	106.2	106.2	106.2
87.5°	28.3	37.8	46.7	46.9	44.5
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3



TEST NUMBER: P564512

CATALOG NUMBER: SQ4-PR1-150U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)